Fold them or flip them.

Bonding solutions for tomorrow's display designs

3M™ High Performance Clean Adhesive Transfer Tape 74/75/77/79000NH Series

Foldable OLED Displays can consist of many film layers – all bonded together. As devices are continuously folded and unfolded, stretched or bent, stress can be created between the layers, making maintaining good aesthetics a real challenge.

With low modulus at low temperature, 3M[™] High Performance Clean Adhesive Transfer Tape 74/75/77/79000NH Series offers outstanding bonding performance and surface quality, providing you with a reliable bonding solution to help keep your displays in shape.



Low modulus

to help reduce stress in the OLED panel layers and for reliability during folding



Reliable peel adhesion

on various substrates (PET, SUS, PI, etc.)



Maintains performance

even under harsh conditions (high humidity, temperature extremes)



Good liner release

for efficient convertibility



Clean removal

on display side at high temp (75°C, 15 minutes)

3M™ High Performance Clean Adhesive Transfer Tape 74/75/77/79000NH Series

With a lower modulus formulation and reliable bonding performance under various temperature and humidity conditions, 3M[™] Tape 74000NH Series helps you create your next generation foldable designs while reducing the risk of quality issues at the same time.



Figure 1 Bending strain

Large shear deformation in adhesive causes compression and buckle in functional layers

Figure 2 OLED Display layers

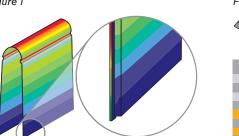
Layers creep and need to recover to stay aligned

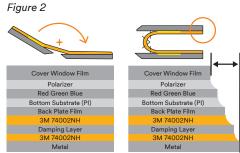
Figure 3 Measuring Torque during folding Softer PSA (green) gives less torque

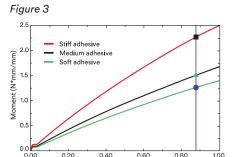
Figure 4 Help reduce stress during folding PSA & teardrop design allow large shear between functional layers

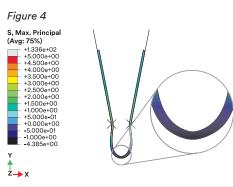
to reduce stress

Figure 1









Product	Format	Tape Thickness	Tape Color	Tg	Modulus at -20°C	Modulus at 25°C	Modulus at 85°C
3M [™] High Performance Clean Adhesive Transfer Tape 74002NH	ATT	25 um	Clear	-35°C	0.3MPa	0.04MPa	0.03MPa
3M [™] High Performance Clean Adhesive Transfer Tape 74207NH	ATT	75 um	Clear	-36°C	0.3MPa	0.05MPa	0.03MPa
3M [™] High Performance Clean Adhesive Transfer Tape 75910NH	ATT	100 um	Clear	-25°C	0.6MPa	0.05MPa	0.03MPa
3M [™] High Performance Clean Adhesive Transfer Tape 74911NH	ATT	110 um	Clear	-24°C	0.7MPa	0.07MPa	0.05MPa
3M [™] High Performance Clean Adhesive Transfer Tape 77920NH	ATT	200 um	Clear	-35°C	0.4MPa	0.05MPa	0.04MPa
3M [™] High Performance Clean Adhesive Transfer Tape 79920NH	ATT	200 um	Clear	-30°C	0.3MPa	0.04MPa	0.02MPa

Ask for Material Datacard: We measure rate and temperature dependent behavior over a wide range of conditions and help you model the material response using linear viscoelasticity in any direction (tensile, compression, shear).



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